

CLAIMS

1-39 (cancelled)

40. (original) A targeting apparatus for use in implanting a prosthetic femoral component having through holes for receiving screws extending transverse to a longitudinal axis of the femur, comprising:

a first arm extending generally parallel to the longitudinal axis of the femur, said first arm having at least one drill guide thereon; and

a second arm supported by said first arm, said second arm coupled to a proximal portion of said femoral component and shaped to extend around the greater trochanter and muscles of the hip joint.

41. (original) The targeting apparatus as set forth in claim 40 wherein the first arm is adjustable in length.

42. (original) The targeting apparatus as set forth in claim 40 further comprising a clamp support by said first arm for clamping on the femur.

43. (original) The targeting apparatus as set forth in claim 42 wherein said clamp is supported on said first arm in a manner permitting adjustment along the longitudinal extend thereof.

44. (original) The targeting apparatus as set forth in claim 43 wherein said clamp is slidably mounted on a longitudinal extending guide track formed on said first arm.

45. (original) The targeting apparatus as set forth in claim 40 wherein said second arm is curved.

46. (original) The targeting apparatus as set forth in claim 45 wherein said second arm is S-shaped.

47. (original) The targeting apparatus as set forth in claim 40 wherein said second

arm is coupled to a proximal end of the femur by a connector threadably engaging a threaded bore in the proximal end surface of the femoral component.

48. (new) The targeting apparatus as set forth in claim 40 further comprising a means for adjusting the angular position of the drill guide in relation to the femur about a proximal-distal axis.

49. (new) The targeting apparatus as set forth in claim 48 wherein the drill guide is located at a predetermined proximal-distal position from a means for coupling the second arm to the proximal end of the femoral component.

50. (new) The targeting apparatus as set forth in claim 49 further comprising means for locating the drill guide in alternative proximal-distal positions on the first arm.

51. (new) The targeting apparatus as set forth in claim 40 in which at least two drill guides are provided.

52. (new) The targeting apparatus as forth in claim 40 wherein a drill guide has at least one line of drill openings each of which is adapted to guide a drill and means for rigidly securing the drill guide to a femur to be resectioned with the line of openings extending in a proximal-distal direction.

53. (new) The targeting apparatus as set forth in claim 52 further comprising means for altering the angular position of the drill guide on the femur about a proximal-distal axis after it has been secured thereto.

54. (new) The targeting apparatus as set forth in claim 52 wherein the drill guide includes two parallel lines of drill openings.

55. (new) The targeting apparatus as set forth in claim 52 wherein adjacent drill openings are angled in relation to each other so that the openings are more closely spaced apart on an outer side of the drill guide than on an inner side adjacent the femur.

56. (new) The targeting apparatus as set forth in claim 55 wherein each of the entry points of the openings on the outer side of the drill guide serves two or more openings so that

there are more entry points for openings on the inner side of the drill guide than on the outer side.

57. (new) The targeting apparatus as set forth in claim 52 wherein the drill guide also includes means for guiding means for exposing the femur along a proximal-distal line.

58. (new) The targeting apparatus as set forth in claim 57 further including a guide means for guiding said means for exposing the femur.

59. (new) The targeting apparatus as set forth in claim 58 wherein the guiding means is in the form of a guide slot.

60. (new) The targeting apparatus as set forth in claim 52 wherein the drill guide element is removably connected to the securing means.

61. (new) The targeting apparatus as set forth in claim 52 wherein the means for securing the element to the femur is said adjustable open jawed clamp adapted to partially surround the femur with which it is to be used.

62. (new) The targeting apparatus as set forth in claim 52 further comprising means for locating the securing means on a partially resectioned transverse end of the femur after the first transverse cut has been made.